SS216

Low Voltage Cabinets

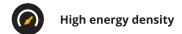






Our SS216 lithium iron phosphate battery system boasts a modular design. You can easily scale its capacity by connecting multiple units in parallel, making it ideal for various applications and enable you to use from 16 kWh to 512 kWh setup.

Features



Unmatched Reliability & Low Maintenance

Field Replaceable Modular Components

Stable discharge platform

Long life cycle

Green technology





Engineered & Tested For Harsh Environments

Advanced Battery Management

Excellent Safety

High charge & discharge rate

Applications



Hybrid Inverter

Grid Tied

Charger Systems

Residential UPS Systems

Commercial UPS Systems

Low Voltage Battery Inverter



SS216

Cell Chemistry	Lithium Iron Phosphate (LiFePO4)	
Cell Manufacturer	CATL	
Rated Capacity	16 kWh	
Nominal Power @0.5C	8 kW	
Nominal Voltage	51.2V	
Operational Voltage	44.8 - 55.6Vdc	
Max Charge & Discharge Current	e Current 157A	
Communication CANBUS / RS485		
Weight per module 112kg		
Dimensions (W x D x H)	426mm x 722mm x 230mm	



Product Diagram

The Battery Module SS216 combines to a flexible battery system with the CB racking system.



Combiner Box

The Combiner box on top of the battery includes a positive (+) and negative (-) DC busbar with multiple connection point. It connects all batteries in the rack as well as its a connection point to the inverter.



Additional the combiner box has a mounting space for the Logger V2 and connects all communication cables between batteries and Logger.

Battery Module SS216

The low voltage battery system ranges from 64 kWh (CB35) to 128 kWh (CB39), each battery system is fully modular with the addition of SS216 modules in series.

The SS216 battery system can then be connected in parallel to meet your storage requirements.

Each module is field changeable and can be exchanged for a new unit when needed.



Battery Management System (BMS)

Each battery module has its own BMS which is used for communication with the BMU, as well as perform internal functions down to cell level in each module.



Battery Frame (CB3x) & Sidewalls

The battery frame (CB3x) is available in several sizes to accommodate 5, 6, or 9 racking slots where one is used for the battery combiner (busbar) in each battery system. The powder coated frame is constructed from heavy-duty stainless steel for durability and comes already build up incl accessories.



Side walls are offered separately in pairs and are optional.

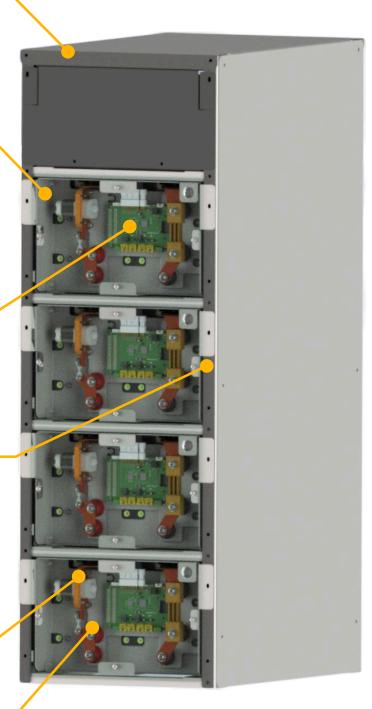
Relay & Fuse

Each module includes a 200A relay and a 200A fuse that protects the system from potential damage.



Connection Cables

The battery system comes with pre cut/crimp DC-Connection & communication cables.





Variations

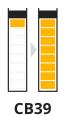
Our Low Voltage CB Cabinet range is a metal rack-mount system designed for different storage capacities according to your energy requirements.



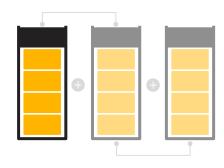
1 - 4x SS216 modules.



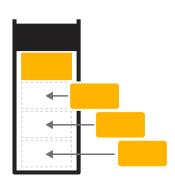
1 - 5x SS216 modules.



1 - 8x SS216 modules.



Capacity can be increased through adding additional modules and/or cabinets through a parallel connection.



Increase capacity by adding on more modules when you need

438mm x 710mm x 2286mm

Operational Temperature 0°C to 50°C

Storage Duration 6 months @25°C

Dimensions (W x D x H)

Cycle Life ≥7000 Charging Efficiency

Safety Standard Compliance
CE / EN 55016 / IEC 61000

Cell Certificate
IEC 62619 / UN38.3 / UN3480 /

	CB35	CB36	CB39
battery modules per cabinet	1 - 4x SS216 Modules	1 - 5x SS216 Modules	1 - 8x SS216 Modules
Capacity Range	16 - 64 kWh	16 - 80 kWh	16 - 128 kWh
Nominal Power (@0.5C)	8 - 32kW	8 - 40 kW	8 - 64 kW
Nominal Voltage	51.2V	51.2V	51.2V
Operational Voltage	44.8 - 55.6Vdc	44.8 - 55.6Vdc	44.8 - 55.6Vdc
Communication	CANBUS / RS485	CANBUS / RS485	CANBUS / RS485
Rack Weight	50kg	60kg	90kg
Total Weight¹	498kg	620kg	986kg

438mm x 710mm x 1300mm

438mm x 710mm x 1525mm



Battery Management System



Each Solar MD battery has its own Battery Management System (BMS) designed and built inhouse. The BMS handles the internal functions of each battery. In setups with multiple batteries, the BMS independently manages each one, ensuring a stable energy flow throughout the battery system.

- Data collection & storage for monitoring
- Efficient charging & discharging control
- Precise cell voltage measurement
- **Built in temperature sensors**
- Voltage management to prevent damage
- Cell balancing for extended lifespan
- SOC Calculation & Control
- CANBUS & RS485 Communication
- CE / IEC61000
- 2x Relays Isolated

Monitoring & Control

The EMS integrates seamlessly with various brands and devices, including energy meters, generators, and inverters. This capability enables real-time adjustments to energy consumption and production, empowering you to make informed decisions for optimal system management. Regular reports provide insights into energy consumption, cost savings, and environmental impact.



Logger V2 (The Device)

The High-Performance Logger V2 offers easy and fast communication with automatic device discovery and connection.

- Interfaces include CAN Bus, RS232, RS485, Ethernet, and Wi-Fi (client and station).
- Integrated programmable relays, digital inputs, digital outputs, analogue input, analogue output for load control.
- **Communicates with** supported inverters, energy meters, weather stations, and other energy devices.



mypower24 (The Platform)

mypower24 is a comprehensive management platform designed to simplify and centralise the control of your energy devices. Seamlessly integrating with your Logger V2, mypower24 offers a robust suite of features that effectively manage and optimise your energy infrastructure:

- Real-Time Data & Insights: Gain valuable insights into your energy usage with real-time data visualisation and historical records.
- Safe & Secure: High-security standards via certified authentication and encrypted data transfer.
- Convenient Remote Management: Remotely manage your system & devices for maximum efficiency.





























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